

**To:** Borries, Samuel[borries.samuel@epa.gov]; El-Zein, Jason[el-zein.jason@epa.gov]; Durno, Mark[durno.mark@epa.gov]; Clements, Mindy[clements.mindy@epa.gov]; Ribordy, Michael[ribordy.mike@epa.gov]; Gebien, Charles[gebien.charles@epa.gov]  
**Cc:** Renninger, Steven[renninger.steven@epa.gov]; Mendoza, Ramon[mendoza.ramon@epa.gov]  
**From:** Thomas, Craig  
**Sent:** Wed 1/15/2014 3:25:48 PM  
**Subject:** Fw: Elk River 4-Methylcyclohexane Methanol Spill Update  
MCHM Conc 2014.xlsx

FYI. Thanks Ramon!

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**From:** Mendoza, Ramon  
**Sent:** Wednesday, January 15, 2014 9:20:35 AM  
**To:** Thomas, Craig; Benning, Brad  
**Subject:** Fw: Elk River 4-Methylcyclohexane Methanol Spill Update

Fyi,

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**From:** Dave Hokanson <dhokanson@umrba.org>  
**Sent:** Wednesday, January 15, 2014 9:08:43 AM  
**To:** Greg Swanson; Brent Earley; LISA VOLLBRECHT; Annika Bankston; Chip Drake; Christian Hawkinson; Larry Cook; Ryan Schuler; Lori Stenzel; Ken Gregory; Becky Spoonmore; Kinman, Linda; Bob Bohannon; George Kraynick; Reita Kuster; Roger Lauder; Rick Gann; Dave Morrison; Tom Kendzierski; rodney.tucker@dnr.iowa.gov; Faryan, Steve; Whelan, Ann; Davis, Joe; Mendoza, Ramon; michael\_coffey@fws.gov; John Punkiewicz; michael.k.sams@uscg.mil; John.Lomnicki@noaa.gov; trowbridge, Annette; Dru Buntin  
**Cc:** Gregg Good; Matt Short  
**Subject:** FW: Elk River 4-Methylcyclohexane Methanol Spill Update

UMR Spills Group and UMR Water Suppliers-

Thought you might be interested in how ORSANCO is tracking the West Virginia spill as the plume moves into the Ohio River. See information forwarded below and attached from Jerry Schulte at ORSANCO. Also see info on their website at: <http://www.orsanco.org/february-2013-technical-and-commission-meetings/347-new-how-will-the-elk-river-spill-affect-the-cincinnati-area>

Dave

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**From:** Jerry Schulte [mailto:[jschulte@orsanco.org](mailto:jschulte@orsanco.org)]

**Sent:** Wednesday, January 15, 2014 8:29 AM

**To:** Dave Hokanson

**Subject:** FW: Elk River 4-Methylcyclohexane Methanol Spill Update

FYI

**Jerry G. Schulte**

Manager, Source Water Protection and Emergency Response

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**From:** Jerry Schulte [mailto:[jschulte@orsanco.org](mailto:jschulte@orsanco.org)]

**Sent:** Wednesday, January 15, 2014 9:26 AM

**To:** 'Jim Mehl'; Mike Baker; Mike Sherron; Mike Eggert; Robert Francis; Bruce Scott ([bruce.scott@ky.gov](mailto:bruce.scott@ky.gov)); Julie Roney; Ron Lovan ; Mary Carol Wagner; Bruce Whiteberry ; GCWW - Jeff Swertfeger ; ([Richard.Stuck@gcww.cincinnati-oh.gov](mailto:Richard.Stuck@gcww.cincinnati-oh.gov)); Richard Harrison ([rharr@nkywater.org](mailto:rharr@nkywater.org)); Jack Wang Louisville Water; Rengao Song; Evansville Water - Tim Hall; Roger Lauder ; Jim Sullivan; Max Michael; Kevin Roberts; Rodney Michael; Mt. Vernon Water; Morganfield Water - John Coffman ; Sturgis Water ([sturgiskywater@earthlink.net](mailto:sturgiskywater@earthlink.net)); Paducah Water - Mindy Martin ; Paducah Water - Glen Anderson ; USEC - Paducah ; Cairo Water - Rachel Bretz; Cairo Water - Stephen Keith ; Cairo Water - Steve Brinkmeyer ; 'binetti, victoria'; 'Bruggers, James'; 'Art Smith'; 'CARROLL, PAT'; 'Paul Tomes'; 'Stuart Bruny'; '[teasterly@idem.in.gov](mailto:teasterly@idem.in.gov)'; 'Scott.G.Mandirola@wv.gov'

**Ex. 6 - Personal Privacy**

**Cc:** Lisa Cochran; Melissa Mann; Peter Tennant; 'Eben Hobbins'; 'Greg Youngstrom'; 'Jason Heath'; 'Jeanne Ison'; 'Jeff Thomas'; 'Lila Ziolkowski'; 'Rob Tewes'; 'Ryan Argo'; 'Sam Dinkins ([sdinkins@orsanco.org](mailto:sdinkins@orsanco.org))'; 'Stacey L. Cochran'; 'Steve Braun'; 'Travis Luncan'

**Subject:** Elk River 4-Methylcyclohexane Methanol Spill Update

All-

It's been a whirlwind, as always during these types of events. Due to the speed of the river and lack of analytical capacity, we don't have a whole lot of data on the plume. Attached is a graph generated from one of ORSANCO's Organics Detection System monitoring sites located at Wv-Am water at Huntington, WV, Ohio River mile 304. This was the first drinking water facility on the Ohio River to see the chemical plume. They successfully treated with activated carbon.

The spill occurred on the Elk River approximately 3 miles upstream from the Kanawha. It traveled 58 miles down the Kanawha River to the Ohio, where it entered the Ohio at river mile 256 sometime on Sunday, 1/12.

The leading edge of the plume arrived at Meldahl Locks and Dam, Ohio River mile 436, at approximately 9:00pm last night. We anticipate it will take 24 hours for the bulk of the plume to pass. The river velocity for Cincinnati, which is just downstream from Meldahl, is 3.6 mph, which makes the "bulk" of this chemical plume roughly 86 miles long.

The chemical is very odiferous. It is estimated that the threshold odor level is very near the analytical detection level, which is somewhere around 5 ppb.

Let me know if you need anything else. We will be posting updates on our website.

Jerry

**Jerry G. Schulte**

Manager, Source Water Protection and Emergency Response

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